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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7924 (1976): Thigh Blocks, Wooden [MHD 10: Medical Laboratory Instruments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
**SPECIFICATION FOR
THIGH BLOCKS, WOODEN**

Artificial Limbs Sectional Committee, CPDC 20; Prosthetic and Orthotic Appliances Subcommittee, CPDC 20:1 [Ref. Doc: CPDC 20 (863)]

1. Scope — Covers dimensional and other requirements for wooden thigh blocks for forming of sockets for above-knee amputees.

2. Shape and Dimensions — As shown in Fig. 1 and Table 1.

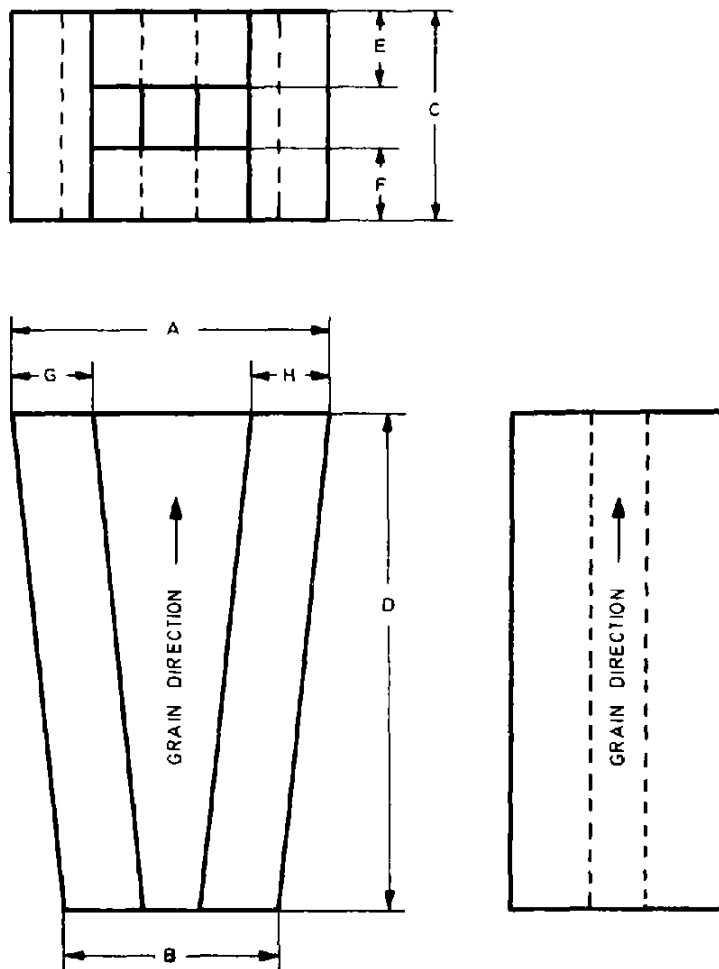


FIG. 1 THIGH BLOCK, WOODEN

Adopted 9 January 1976

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NEW DELHI 110002

TABLE 1 DIMENSIONS FOR THIGH BLOCKS, WOODEN

All dimensions in millimetres.

Size of Thigh Block	A ± 5	B ± 5	C ± 5	D ± 5	E ± 2	F ± 2	G ± 2	H ± 2
Small	200	115	150	460	60	60	45	45
Medium	255	180	180	460	70	70	70	70
Large	280	190	190	460	70	70	70	70
Extra Large	295	205	205	460	70	70	70	70

3. Material

3.1 Timber — Shall be willow (*Salix Spp*) conforming to IS : 6707-1972 'Specification for willow logs for artificial limbs'.

3.1.1 Any of the following species of timber may also be used as an alternative to 3.1:

- i) Gamari (*Gmelina arborea*)
- ii) Toon (*Toona ciliata*)
- iii) Horse chestnut (*Aesculus indica*)
- iv) Kuthan (*Hymenodictyon excelsum*)
- v) Cypress (*Cupressus torulosa*)

3.2 Glue — Shall be a suitable phenolic or aminoplastic synthetic resin adhesive conforming to IS : 851-1957 'Specification for synthetic resin adhesives for construction work in wood'.

4. Workmanship and Finish

4.1 The thigh blocks may be made either from solid blocks or from laminations by glueing and pressing together appropriate sizes of seasoned timber pieces. To ensure proper bonding, the cunng of the glue

AMENDMENT NO. 2 SEPTEMBER 1994
TO
IS 7924 : 1976 SPECIFICATION FOR
THIGH BLOCKS, WOODEN

[*Page 1, Title (see also Amendment No 1)*] — Delete the word 'WOODEN'.

(*Page 2, clause 3.1.1*) — Add the following matter at the end:

'vi) Alder (*Alnus sp.*)

vii) Poplar (*Populus sp.*)

3.1.2 Any other suitable material equivalent in performance may also be used as an alternative to wood.'

(*Page 2, clause 3.2*) — Substitute the following for the existing clause:

'3.2 Glue — Glue shall be of suitable setting.'

**AMENDMENT NO. 1 FEBRUARY 1993
TO
IS 7924 : 1976 SPECIFICATION FOR THIGH BLOCKS,
WOODEN**

(*Page 2, Table 1*) — Insert the following row at the beginning of the table:

'Extra Small 180 115 140 460 60 60 45 45'

(MHD 10)

Reprography Unit, BIS, New Delhi, India

APPENDIX A

(Clause 5.1.1)

RECOMMENDED PRACTICE FOR SEASONING OF THIGH BLOCKS OR LAMINATES FOR THIGH BLOCKS

A-1. Preliminary Treatment

A-1.1 The blocks or laminations should be converted from logs so as to conform to the requirements of freedom from knots and maximum slope of grain specified under 4.3, leaving sufficient oversize to take care of shrinkage and surface and end cracks during seasoning. In case of laminations, it is desirable to convert them into multiples of lengths and widths ultimately required, to minimize warping during seasoning.

A-1.2 Where solid blocks are to be used, they should be immediately end-coated after conversion with a suitable composition as prescribed in IS : 1141-1973 to minimize end-cracking during seasoning. They may also be prebored before seasoning in order to reduce seasoning time and cracking.

A-1.3 The blocks and laminations may be given a soaking or brush coating prophylactic preservative treatment according to IS : 401-1967 'Code of practice for preservation of timber (*second revision*)' to avoid stain and discoloration, if air-seasoning is adopted.

A-2. Seasoning

A-2.1 The blocks and laminations may be air-seasoned or kiln-seasoned, though in the case of thick-section unbored blocks it is found expedient to partially air-dry them to about 25 percent moisture content before charging in the kiln in order to reduce kiln time and drying defects.

A-2.2 For air-seasoning, the laminations should be horizontally stacked on battens over raised foundations in a well-ventilated shed, with sufficient weight on the top, according to the procedure specified in IS : 1141-1973. Blocks may be stacked on racks under shed for slow air-seasoning.

A-2.3 Kiln-seasoning should be done according to procedure and kiln-drying schedules specified for different species in IS : 1141-1973.